| 09/941,817  | SEIBEL ET AL.  |   |
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| Examiner  | Art Unit   |   |
| David L. Hogans   | 2813   |   |
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| f this communication to file a reply of this application.  Ited. Note the attached EXAMINER's reason(s) why the oath or declarate be submitted.  In a Patent Drawing Review (PTO-SAMINER')  Amendment / Comment or in the Office of the declaration of the drawing header according to 37 CFR 1.121(c) it of BIOLOGICAL MATERIAL manual communications. | complying with the recomplying attached of the section of the section of the section of the section with the section of the se | quirements IOTICE OF  |
| 6.  Interview Summary Paper No./Mail Date Paper No./Mail Date 7.  Examiner's Amendm 8.  Examiner's Stateme 9.  Other CARLY  | (PTO-413),<br>e<br>nent/Comment<br>nt of Reasons for Allo<br>WHITEHEAD, JR.  | ·   |
|   | Examiner  David L. Hogans  rs on the cover sheet with the coon REMAINS) CLOSED in this appropriate communication in the subject to and MPEP 1308.  In December 18, 2003.  The Examiner.  The 35 U.S.C. § 119(a)-(d) or (f).  The en received in Application No   | Examiner  David L. Hogans  rs on the cover sheet with the correspondence addroor REMAINS) CLOSED in this application. If not include the rother appropriate communication will be mailed in due in the sheet and MPEP 1308.  In December 18, 2003.  The Examiner.  The received in Application No |

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## **DETAILED ACTION**

This Office Action is in response to the Amendment filed on December 18, 2003.

## Status of Claims

Claims 1-23 are pending.

## Allowable Subject Matter

1. Claims 1-23 are allowed.

- 2. The following is an examiner's statement of reasons for allowance.
- 3. The primary reason for allowance of the claims is the inclusion of explosive recrystallization of said amorphous silicon layer from said top surface to the contact with said insulation layer to transform said amorphous silicon into a polycrystalline silicon gate. The prior art of record fails to teach, in combination with the other claimed features, that during recrystallization latent crystallization heat is released, which is transferred to amorphous silicon layers above and below the newly crystallized area (i.e. explosive recrystallization).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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5. 6,165,875 to Fonash et al. teaches explosive recrystallization but fails to teach explosive recrystallization of an amorphous silicon layer from said top surface to the contact with an insulation layer to transform said amorphous silicon into a polycrystalline silicon gate.

- 6. 6,451,644 to Yu teaches lasing a doped amorphous silicon gate but fails teach explosive recrystallization.
- 7. 6,475,872 to Jung teaches lasing a doped amorphous silicon gate but fails teach explosive recrystallization.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David L. Hogans whose telephone number is (571) 272-1691. The examiner can normally be reached on M-F (7:30-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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